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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/845,104	04/30/2001	Gavan Tredoux	A0840 1617		
7590 07/10/2006			EXAMINER		
Patent Documentation Center			BLAIR, DOUGLAS B		
Xerox Corporat					
Xerox Square 20th Floor			ART UNIT	PAPER NUMBER	
100 Clinton Ave. S.			2142		
Rochester, NY 14644			DATE MAILED: 07/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application	n No.	Applicant(s)				
Office Action Summary		09/845,10	4	TREDOUX ÉT AL.				
		Examiner		Art Unit				
		Douglas B		2142				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
2a)⊠ This 3)⊡ Sinc	oonsive to communication(s) filed action is FINAL . 2b to this application is in condition for ed in accordance with the practice.	o)☐ This action is n or allowance except	for formal matters, pro					
Disposition o	f Claims							
 4) Claim(s) 9-16 and 18-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 9-16 and 18-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Application P	apers							
10)☐ The o Appli Repl	specification is objected to by the drawing(s) filed on is/are: cant may not request that any objection acement drawing sheet(s) including the path or declaration is objected to be	a) accepted or b) on to the drawing(s) be the correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under	· 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s)	eferences Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) Notice of D 3) Information	raftsperson's Patent Drawing Review (PT Disclosure Statement(s) (PTO-1449 or P)/Mail Date		Paper No(s)/Mail Da					

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DETAILED ACTION

Response to Amendment

1. Claims 9-16 and 18-23 are currently pending in this application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 9-10, 13-15 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 7,007,093 to Spicer et al. in view of U.S. Patent Number 6,457,054 to Bakshi et al..
- 4. As to claim 9, Spicer teaches a method of accessing an internal network device on a protected network, the network including a security device, the method comprising: storing data addressed to the internal network device in an external proxy server (col. 4, lines 4-24, the Proxy Server 114 stores data addressed to the Network Resources 104.); maintaining a proxy agent on the protected network, the proxy agent executing the step of: polling the external proxy server for data addressed to the internal network device, where polling includes: connecting to the external proxy server to check for pending traffic (col. 4, lines 4-24, the Polling Server 116 polls the Proxy Server 114); receiving from the external proxy server when the external proxy server has received data from a client (col. 4, lines 4-24, Polling Server receives client request for Network Resources 104); forwarding to the internal network device any data on the external proxy server

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and addressed to the internal network device; and forwarding to the external proxy server any data addressed to an external device in communication with the external proxy server (col. 4, lines 4-24, the Network Resources 104 are disclosed as being printers and file servers and other similar devices which inherently send responses); however Spicer does not explicitly teach the external proxy server sending a stream of spurious bytes if there is nothing pending for the internal network device.

Bakshi teaches a method of receiving a stream of spurious bytes from a proxy server if there is nothing pending for the network device (col. 3, lines 46-67).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of Spicer regarding communication through a private network with the teachings of Bakshi regarding the transmission of spurious bytes because spurious bytes keep communication channels open and thus reduce latency that would be required to establish a connection (Bakshi, col. 3, lines 46-67).

- 5. As to claim 10, Spicer teaches a method of polling the external server at regular intervals (col. 4, lines 4-24).
- 6. As to claim 13, Bakshi teaches a method of multiplexing multiple requests from the proxy agent to proxy server through the same connection (col. 3, line 46-67).
- 7. As to claim 14, Spicer teaches a method of maintaining by the proxy server maps between local TCP/IP ports of the proxy server and private IP addresses on the protected network, the maps being distinguished by an identity of the proxy agent used to access them (col. 4, lines 4-44).

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8. As to claim 15, Spicer teaches a method of publishing by each proxy agent a list of addresses it can reach to the external proxy server, the external proxy server using this list to create a respective map between local ports and proxy agents (col. 4, line 55-col. 5, line 15).

- 9. As to claim 20, Spicer teaches a method of providing network administrators control over the system including granting administrators the ability to allow and deny entry into the protected network on a per session basis (col. 4, line 55-col. 5, line 15).
- 10. Claim 11-12, 16, 20-21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 7,007,093 to Spicer et al. in view of U.S. Patent Number 6,457,054 to Bakshi et al. in further view of U.S. Patent Number 6,510,464 to Grantges Jr. et al..
- 11. As to claim 11, the Spicer-Bakshi combination does not explicitly teach the use of two separate protocols to inside and outside the private network.

Grantges Jr. teaches a method of communicating by an internal network device with a proxy using a first network protocol and an external network device communicating with the proxy using a second protocol (Figure 7).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of the Spicer-Bakshi combination regarding communication to devices on a private network with the teachings of Grantges, Jr. regarding the use of different protocols inside and outside of the private network because some connections may be required to be secure.

12. As to claim 12, Grantges Jr. teaches a method wherein data addressed to an internal network device using a second network protocol is transmitted to the internal device using the

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first protocol so that the second protocol is carried to the internal network device inside the first network protocol (HTTP traffic is encrypted using HTTPS).

13. As to claim 16, the Spicer-Bakshi combination does not explicitly teach ensuring cookie delivery.

Grantges, Jr. teaches a proxy server that ensures proper cookie routing (col. 11, line 63-col. 12, line 10).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of the Spicer-Bakshi combination regarding a system for communicating with private network devices with the teachings of Grantges, Jr. regarding the routing of cookies because cookies are commonly communicated during HTTP communication.

- 14. As to claim 18 and 19, they are rejected for the same reason as claims 11 and 12.
- 15. As to claim 20, Grantges Jr. teaches the use of X.509 certificates (Fig 7).
- 16. As to claim 21, the Spicer-Bakshi combination teaches the method of claim 9 however the Spicer-Bakshi combination does not explicitly teach rewriting cookies with unique identifiers.

Grantges Jr. teaches rewriting cookies with unique identifiers to prevent inadvertent transmission of private information to an incorrect recipient on the protected network (col. 9, line 54-col. 10, line 5).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of the Spicer-Bakshi combination regarding a system for communicating with private network devices with the teachings of Grantges, Jr.

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regarding the routing of cookies because cookies are commonly communicated during HTTP communication.

17. As to claim 23, the Spicer-Bakshi combination teaches the method of claim 9 however the Spicer-Bakshi combination does not explicitly teach granting a key for access.

Grantges teaches a method wherein access is conferred by granting a key with a predetermined life span (col. 7, lines 63-col. 8, line 14).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of the Spicer-Bakshi combination regarding a system for communicating with private network devices with the teachings of Grantges, Jr. regarding granting a key because keys are commonly used to identify requesters.

Response to Arguments

18. Applicant's arguments filed 6/15/06 have been fully considered but they are not persuasive. The applicant argues that Spicer makes no mention of "the polling server forwarding data addressed to an external device to the external proxy server". However, the examiner points out that the Network Resources 104 in Figure 1 of Spicer are disclosed as being printers and file servers. Most modern printers send their clients status information to show the status of client's print job. Likewise it would be pointless to access a file server and not expect a response, for example, if a user requested a file, the user would want the requested file returned. The applicant's suggestion that Spicer does not allow any responses from the Network Resources to the clients using Network Terminals via the Proxy Server completely ignores the purpose of Spicer's invention.

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19. So looking specifically at Spicer's invention with respect to Figure 1, let's assume that the Network Resource 104 is a printer. Network Terminal 200 would submit a print job through Communications Network 112 to Proxy Server 114. The print job would then be retrieved by Polling Server 116 and sent to Printer Server 118 and then sent to the printer (Network Resource 104). The printer would then return the status of the print job through Printer Server 118 and Polling Server 116 to the Proxy Server 114. Notice Figure 1 shows arrows indicating the 2-way communication between the Proxy Server 114 and the Polling Server 116.

Conclusion

20. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas B. Blair whose telephone number is 571-272-3893. The examiner can normally be reached on 8:30am-5pm Mon-Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Douglas Blair

DBB

BUNJOB JAROENCHONWANIT SUPERVISORY PATENT EXAMINER